

Fig. 1

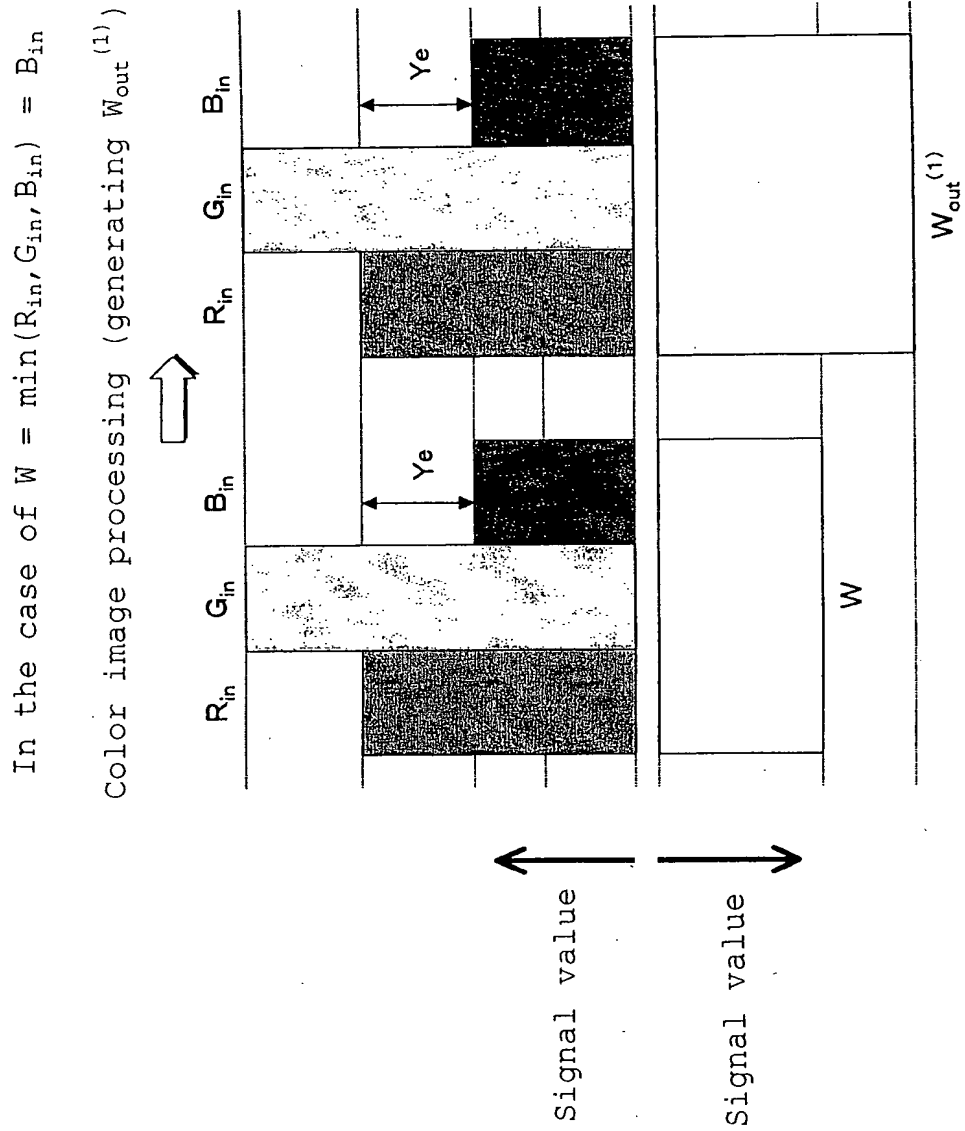


Fig. 2

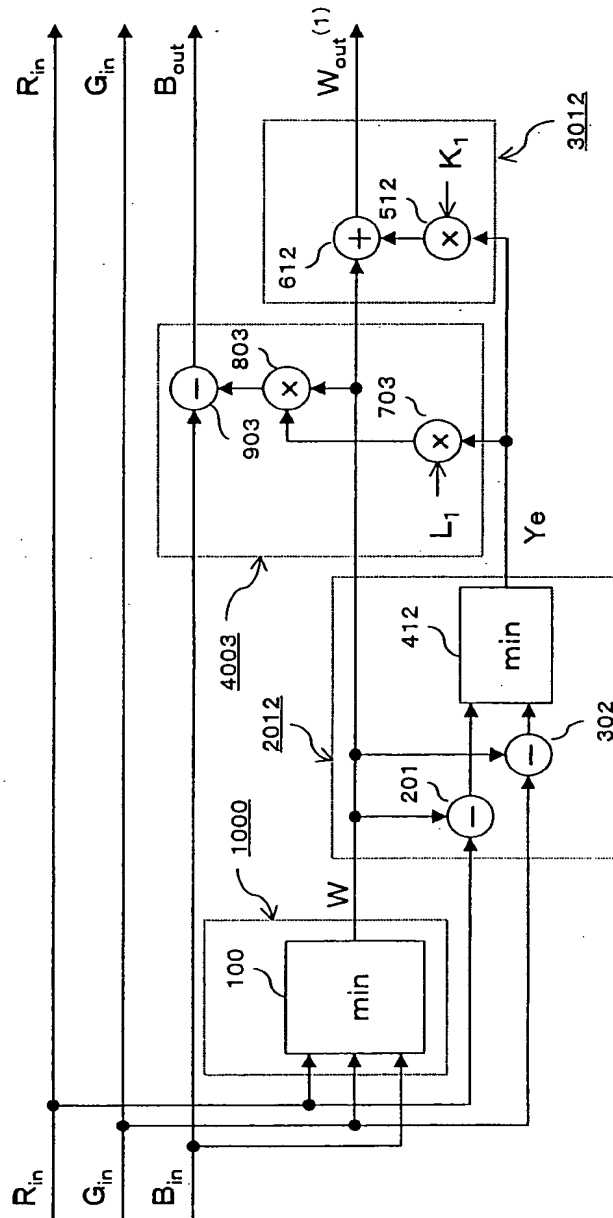
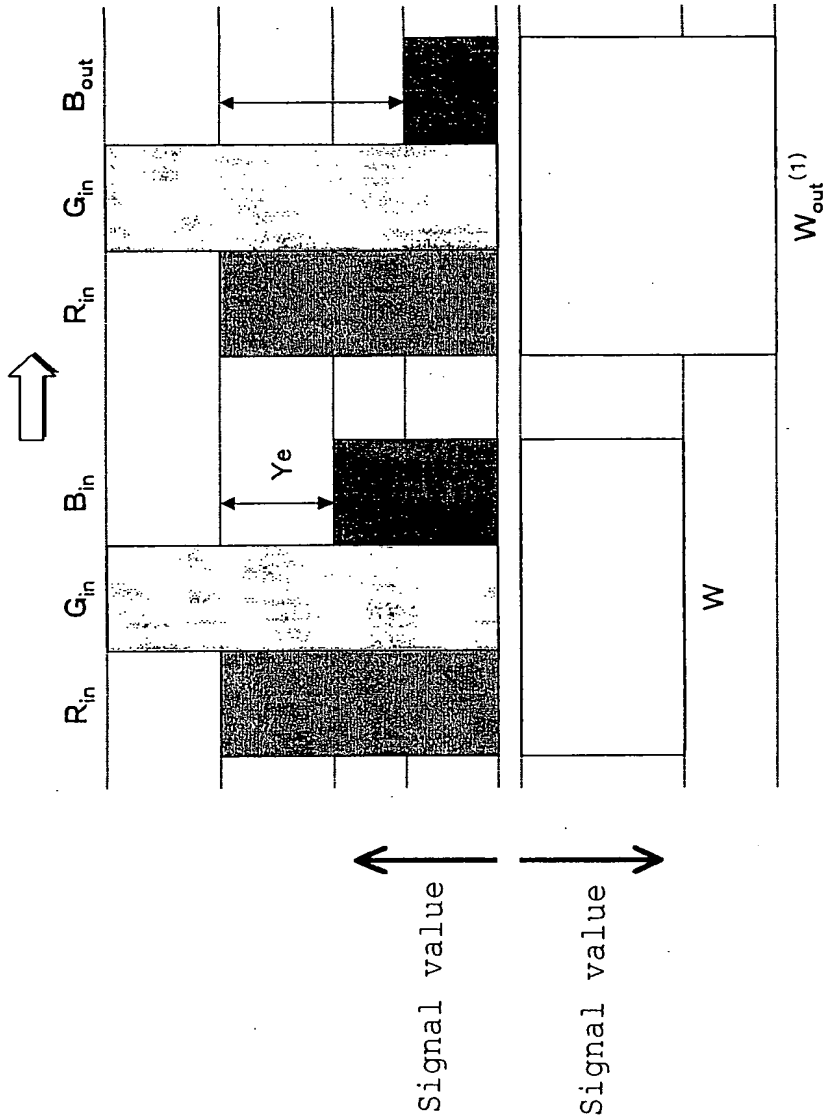


Fig. 3

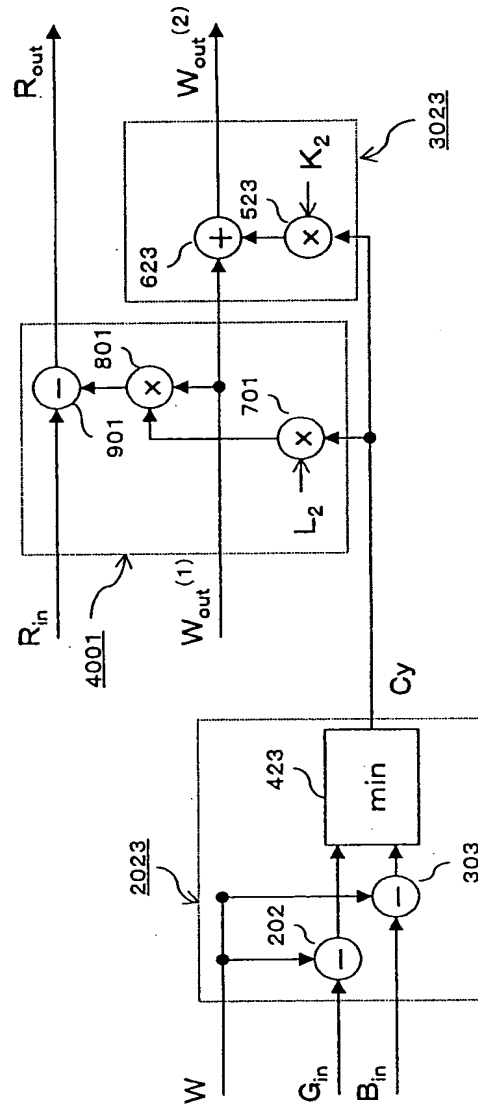
In the case of $W = \min(R_{in}, G_{in}, B_{in}) = B_{in}$

Color image processing (generating $W_{out}^{(1)}$ and B_{out})



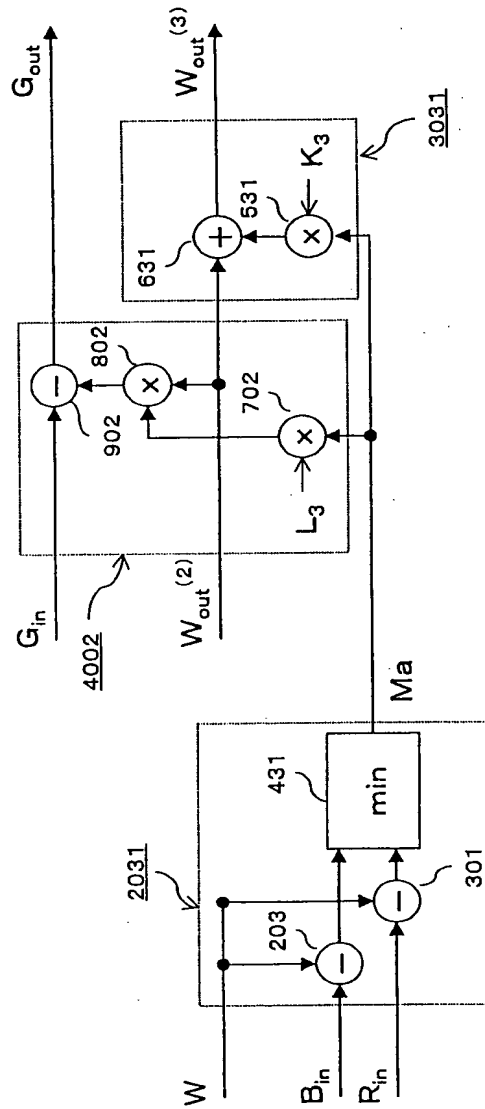
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Fig. 4



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Fig. 5



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Fig. 6

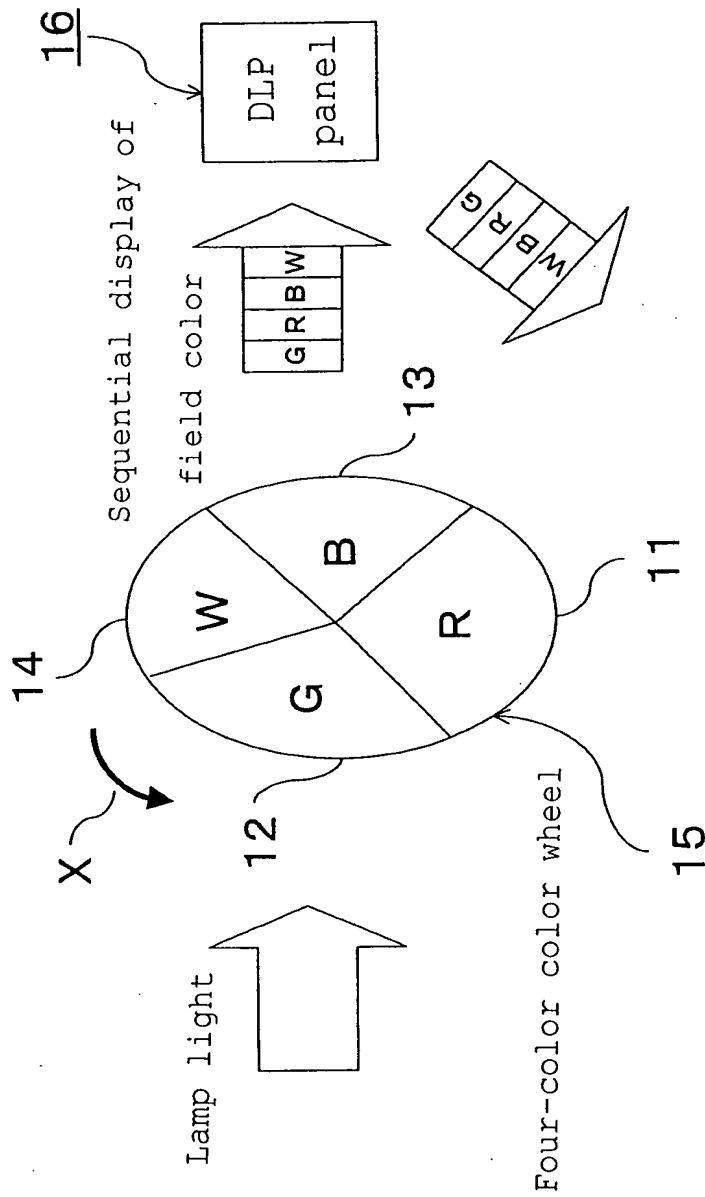


Fig. 7

Color image processing in comparative example

Original RGB signal (R_o , G_o , B_o)	Display RGB signal ($R_d(o)$, $G_d(o)$, $B_d(o)$)
(255, 255, 0)	(185, 185, 0)
(255, 255, 51)	(185, 185, 37)
(255, 255, 102)	(185, 185, 74)
(255, 255, 153)	(187, 187, 114)
(255, 255, 204)	(218, 218, 190)

Fig. 8

Color image processing in example 1

Original RGB signal (R_o, G_o, B_o)	Display RGB signal in the case of $K_1 = 0.3$ ($R_d^{(1)}, G_d^{(1)}, B_d^{(1)}$)	Display RGB signal in the case of $K_1 = 0.4$ ($R_d^{(1)}, G_d^{(1)}, B_d^{(1)}$)
(255, 255, 0)	(185, 185, 0)	(196, 196, 74)
(255, 255, 51)	(187, 187, 45)	(198, 198, 86)
(255, 255, 102)	(195, 195, 100)	(205, 205, 120)
(255, 255, 153)	(210, 210, 152)	(217, 217, 162)
(255, 255, 204)	(230, 230, 203)	(234, 234, 207)

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Fig. 9

Color image processing in example 2

Original RGB signal (R_o, G_o, B_o)	Display RGB signal in the case of (K_1, L_1) = (0.3, 1) ($R_d^{(2)}, G_d^{(2)}, B_d^{(2)}$)	Display RGB signal in the case of (K_1, L_1) = (0.4, 1) ($R_d^{(2)}, G_d^{(2)}, B_d^{(2)}$)
(255, 255, 0)	(185, 185, 0)	(196, 196, 74)
(255, 255, 51)	(187, 187, 28)	(198, 198, 80)
(255, 255, 102)	(195, 195, 76)	(205, 205, 102)
(255, 255, 153)	(210, 210, 126)	(217, 217, 138)
(255, 255, 204)	(230, 230, 184)	(234, 234, 189)

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Fig. 10

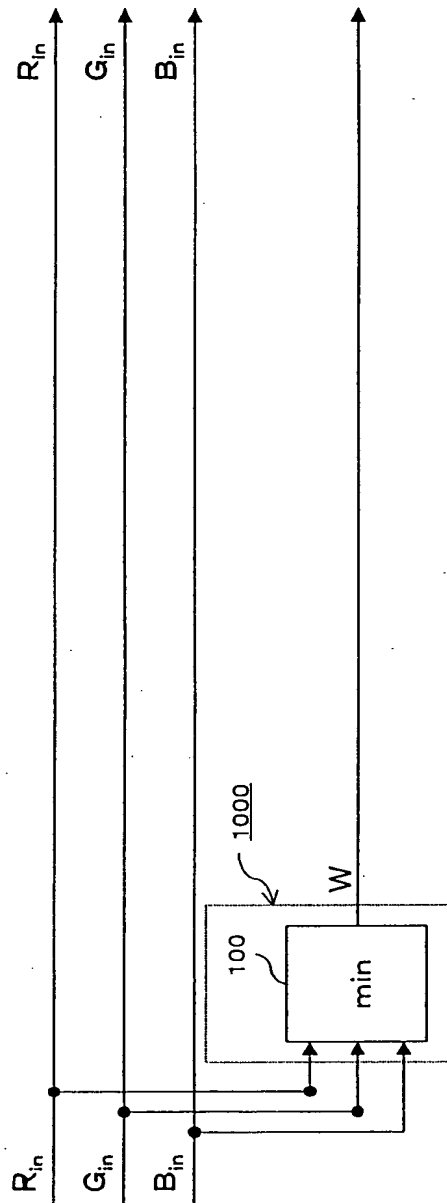
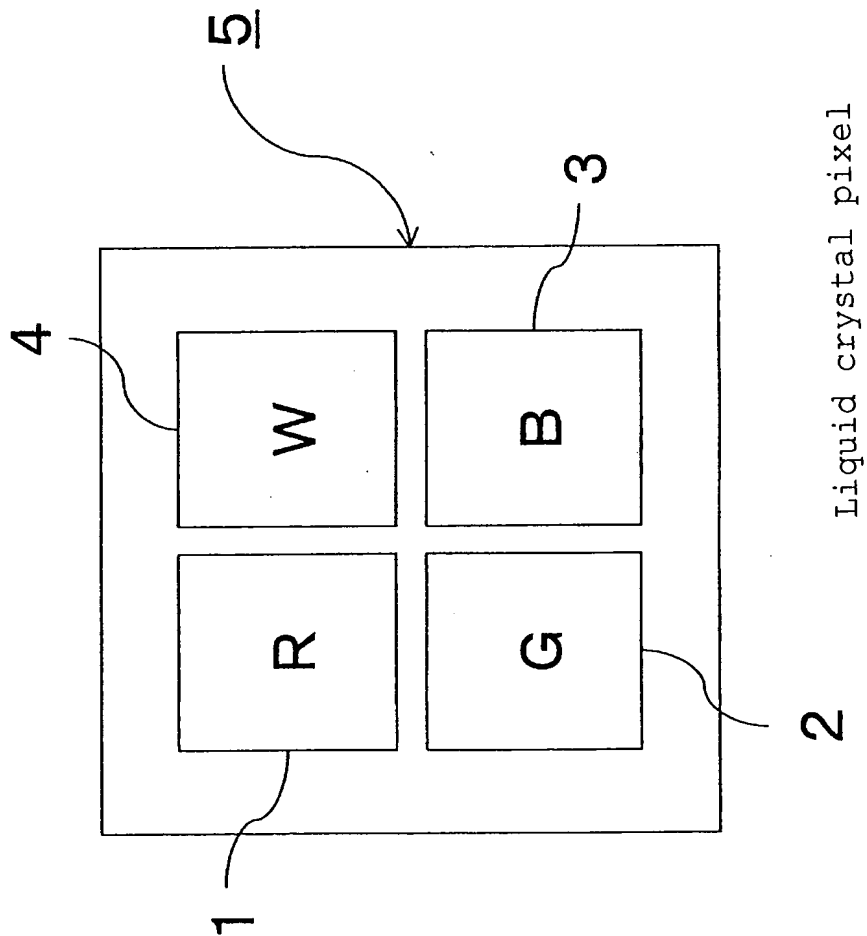


Fig. 11



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Fig. 12

In the case of $W = \min(R_{in}, G_{in}, B_{in}) = B_{in}$

